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REPORT NO. 4

JAN 21 '76

PROCUREMENT SECTION  
CURRENT SERIAL RECORDS

## Cotton Fiber and Processing Test Results

CROP of

1975



Agricultural Marketing Service  
U.S. DEPARTMENT OF AGRICULTURE  
Memphis, Tenn. 38122 October 10, 1975

## COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1975

### Discussion of Test Results

The average Fibrograph length of short staple cotton tested from the Southwest is considerably longer than a year ago according to the Cotton Division, Agricultural Marketing Service. The average mike is coarser than a year ago. The average zero gage fiber strength is weaker, while 1/8-inch gage is stronger than last season on the limited number of lots tested this season. Picker and card waste is lower than a year ago. Yarns spun from these samples show stronger yarn strength and higher yarn appearance grades. There are fewer yarn imperfections than a year ago. Average spinning potential number is higher.

Medium staple samples tested from the Southwest show fiber strength to be weaker at both zero gage and 1/8-inch gage tests than a year ago. Picker and card waste is lower than last season. Yarns spun from these samples show higher appearance grades. There are more yarn imperfections than a year ago at this time.

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These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.<sup>1/</sup> These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

<sup>1/</sup> Summary of Cotton Fiber and Processing Test Results, Crop of 1974,  
USDA, AMS, Cotton Division, May 1975.



Table 1.--Cotton:

Averages of fiber and processing tests from selected gin points in the United States  
through October 3, 1975 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.	
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appear- ance	Imperf- ections		
				<u>Inches</u>			<u>Pct.</u>	<u>Rdg.</u>				<u>Mpsi</u>	<u>G/tex</u>
Short Staple:													
Southwest													
1974	8	.96	44	4.0	88	21	3.5	6.6	92	105	17	42	
1975	3	1.04	45	4.4	84	23	3.6	6.0	104	113	12	51	
Medium Staple:													
Southwest													
1974	27	1.07	45	4.3	84	23	2.8	5.8	102	91	19	60	
1975	20	1.08	45	4.3	81	22	2.8	4.6	103	99	22	59	
Significant dif- ference 2/													
		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3	

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification &				Fiber Test Results										Processing Test Results - Carded Yarns											
Sample Number		Digital Fibrograph		Mike		Fiber Strength		Elon-gat'n 1/8"		S.A. Non-lint		Color Raw Stock		P & C		Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent-ial	
No	Grade	Style	2.5% span	Unif		Zero	1/8" Gage	Pct	G/tex	Pct		Gra	Yel	Waste		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx		
Name & Code		32s	In	Pct	Rdg	Mpsi						No	No	Pct	Lbs	Pct	Pct	No	No	No	No	No	No		
SOUTHWEST CENTRAL TEXAS																									
TAYLOR																									
2	SIM LT SP	42	1.06	43	4.2	81	22	5.7	3.5	2	3	95 PERCENT					103	7.7	6.3	120	110	28	14	51	
3	SIM LT SP	42	1.03	45	4.6	79	22	5.7	3.3	2	3	2	3	5.2	320	103	7.5	6.3	130	110	23	14	52		
WACO																									
1	SIM	41	1.03	46	4.4	92	24	5.4	4.0	2	4	100 PERCENT					105	7.0	5.8	130	120	14	8	49	

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification &			Fiber Test Results										Processing Test Results - Carded Yarns												
Sample Number			Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S. A. Non- Lint	Color Raw Stock		P & C Waste		Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial			
No	Grade	Stple	2.5% span	Unif.	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	Yel	Pct	Pct	Lbs	Lbs	Pct	Pct	22s or 27 tx	50s or 12 tx	22s or 27 tx		50s or 12 tx		
			32s																					No	
SOUTHWEST CENTRAL TEXAS																									
AQUILLA																									
41	1 SIM	32	1.01	42	3.3	88	23	5.7	4.7	0	3	100 PERCENT	5.7	31	5.6	4.1	70	60	23	23	51				
41	2 SIM	32	1.01	42	3.4	85	23	5.4	4.4	1	3	5.9	94	29	5.4	4.0	80	60	26	21	44				
BATESVILLE																									
21	3 SM	35	1.13	45	4.4	73	23	7.7	1.6	0	2	90 PERCENT	107	36	6.9	4.9	90	70	17	15	64				